APPENDIX A

## Upload time comparison chart

MPEG 1VIdeo	Data Capacity	MPEG 2 Video		
60 min	0.50 GB	17 min		
120 min	1,00 GB	34 min		
180 min	1.50 GB	51 min		
240 min	2.00 GB	69 min		
420 min	3.50 GB	120 min		

Upload Speed	(13% overhead and	(2 hours MPEG 1 or		Upload Time for 2GB (7 hours MPEG 1 or 2 hours MPEG 2)
125 ldsps	13.83 kByteps	20.09 haum	40.18 hours	60.27 hours
250 kbps	27.65 kByteps	10.04 hours	20.09 hours	30.13 hours
512 kbps	56.64 kByteps	4.90 hours	9.81 hours	14.71 hours
1,000 kbps	110.82 kByteps	2.51 hour	5,02 hours	7,53 hours
2,000 kbps	221.24 kBytop	1.28 hour	2.51 hours	3.77 hours

## Download/Upload Comparison Chart

One GB file download/uplead comparison for various services and transfer rates. Rates are based on current service afferings by providers (e.g., Qwest) as well as information from detreports.com.

Type Description	Downstream U (bps) (t	opa)	Downstream		Down-stream! Transfer (Hr)	
ADSL Mid-range, consumer	258,000	90,000	27,840	9,788	10.7	30.5
ADSL Mid-range, consumer	258,000	128,000	27,840	13,920	. 10.7	21.4
ISDN Typical consumer	128,000	128,000	16,000	16,000	18.6	9.81
ADSL High-end, consumer Low-end, small	640,000	256,000	69,600	27,840	4.3	10.7
ADSI, business Mid-range, small	640,000	272,00	0 69,60	29,58	0 4.3	10.1
ADSL business High-end, small	640,000	644,00	69,60	0 69,16	0 4.8	5.0
ADSL business	960,000	816,00	0 104,40	0 88,74	0 2.6	3.4
ADSL Enterprise	1,200,000	1,100,00	0 130,50	0 119,62	5 2.3	3. 2.5
ADSL Enterprise	4,400,000	1,100,00	0 478,50	0 119,62	5 0.0	6 2.5
ADSL Enterprise	7,100,000	1,100,00	0 772,12	5 119,62	5 0.4	4 2:6
ADSL Max-speed	8,000,000		0 870,00	0 326,26	io <b>o</b> .:	3 0.9
FTTH Case-study (Palo Alto			0 887,50	00,080,00	XO 0.	3 0.5
CATV Max-speed	10,000,000			0 1,250,00	O Q.	2 0.2







